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## TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

UF-371XC1 U.S. JUJJ 5690 Jugs FR 1.5)

CO	NCERNING A SUBMISSIC								
PCT/US	ATIONAL APPLICATION NO. 32004/026965	INTERNATIONAL FILING DATE August 18, 2004	PRIORITY DATE CLAIMED August 18, 2003						
TITLE OF INVENTION  Heat Stable Variants of Adenosine Diphosphate Glucose Pyrophosphorylase									
APPLICANT(S) FOR DO/EO/US L. Curtis Hannah, Carla R. Lyerly Linebarger									
			D/US) the following items and other information:						
1. 🗸	This is a FIRST submission of items co	oncerning a submission under 35 U.S.C. 37	l.						
2.	This is a SECOND or SUBSEQUENT s	submission of items concerning a submissio	n under 35 U.S.C. 371.						
3. 🗸	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.								
4. 🗸	The US has been elected (Article 31).								
5. 🗸	A copy of the International Application	n as filed (35 U.S.C. 371(c)(2))							
	a. a is attached hereto (required	only if not communicated by the Internation	nal Bureau).						
	b.	the International Bureau.							
	c. is not required, as the applic	cation was filed in the United States Receiv	ing Office (RO/US).						
6.	An English language translation of the	e International Application as filed (35 U.S.C	C. 371(c)(2)).						
	a. is attached hereto.								
	b. has been previously submit	tted under 35 U.S.C. 154(d)(4).							
7.	Amendments to the claims of the Inte	ernational Application under PCT Article 19	(35 U.S.C. 371(c)(3))						
	a. are attached hereto (requi	red only if not communicated by the Interna	tional Bureau).						
	b. have been communicated	by the International Bureau.							
	c. have not been made; how	ever, the time limit for making such amendr	nents has NOT expired.						
_	d. have not been made and v	will not be made.							
8.	An English language translation of the	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).							
9. 🗹	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). unsigned								
10. 🔲	An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the International Preliminary E	xamination Report under PCT						
	s 11 to 20 below concern document(s	s) or information included:							
11.	An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.							
12.	An assignment document for recording	ng. A separate cover sheet in compliance w	th 37 CFR 3.28 and 3.31 is included.						
13. 🗸	A preliminary amendment.								
14.	An Application Data Sheet under 37 (	CFR 1.76.							
15.	A substitute specification.								
16.	A power of attorney and/or change of	f address letter.							
17.	A computer-readable form of the sequence	uence listing in accordance with PCT Rule	13ter.2 and 37 CFR 1.821- 1.825.						
18.	A second copy of the published Interr	national Application under 35 U.S.C. 154(d)	(4).						
19.	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).								

17 153 2006

PTO-1390 (Rev. 07-2005)
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U.S. APPLICA	11.0N NO. (if known   1569	see 27 GER 1.5)	INTERNATIONAL APP	-	ATTORNEY'S DOCK	(ET NUMBER				
ŁU	11202	O'A M'-	<sup>2</sup> CT/US2004/026965		UF-371XC1					
20. Other items or information: Certificate of Mailing										
The fol	lowing fees have b	een submitted			CALCULATIONS	PTO USE ONLY				
21. 🗸 Bas	ic national fee (37	CFR 1.492(a))		\$300	\$ 300.00					
22. 🔽 Exar	nination fee (37 CF	R 1.492(c))								
by IPEA	/US indicates all cl	aims satisfy prov	rnational preliminary examinations of PCT Article 33(1)-(4)	\$0	\$200.00					
If the written opin IPEA/US Search fee (37 C Internati International Sea previous	rch fee (37 CFR 1. nion of the ISA/US 5 indicates all claim CFR 1.445(a)(2)) honal Searching Au arch Report prepar y communicated to	\$100.00								
	TOTAL OF 21, 22	2 and 23 =			\$600.00					
sequence electroni	ee for specification te listing in complia to medium) (37 CF to \$250 for each ad the Extra Sheets									
51 - 100 -		thereof (round	up to a whole number)	RATE						
- 100 -	0 /50 =		0	x \$250	\$0.00					
after the date of	commencement of	g any of the search f the national stag	ch fee, examination fee, or the or ge (37 CFR 1.492(h)).	oath or declaration	\$					
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$					
Total claims	4	47 - 20 =	27	× \$50	\$1,350.00					
Independent claims 7 - 3 =			4	× \$200	\$800.00					
MULTIPLE DEP	ENDENT CLAIM(S	S) (if applicable)		+ \$360	\$					
			TOTAL OF ABOVE		\$2,750.00					
✓ Applicant cla	aims small entity st	ed by 1/2.	\$1,375.00							
		\$1,375.00								
Processing fee of claimed priority of	of <b>\$130.00</b> for furni date (37 CFR 1.49)	\$								
		\$ 1,375.00								
	the enclosed ass e cover sheet (37	\$								
		\$ 1,375.00								
		Amount to be refunded:	\$							
					Amount to be	\$				

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а. 🔲	A check in the amount of \$	to cover the above							
b. 🗸	Please charge my Deposit Account No. <u>19-0065</u> in the amount of \$ <u>1,375.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.								
c. 🗸	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 19-0065. A duplicate copy of this sheet is enclosed.								
d. 🗖	Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.								
	NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.								
SEND A	LL CORRESPONDENCE TO:		2						
			SIGNATURE						
C	USTOMER NUMBER	1.1 17 - 1	Doran R. Pace						
	23557	Jelmay 17, 2006	NAME						
		O Date	38,261						
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## Patent Application Docket No. UF-371XC1

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	:	L. Curtis Hannah, C	Carla R. Lyerly Lineba	arger

Docket No. : UF-371XC1

For : Heat Stable Variants of Adenosine Diphosphate Glucose

Pyrophosphorylase

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313

## CERTIFICATE OF MAILING BY EXPRESS MAIL (37 CFR §1.10)

Express Mai	l No.:_	E	Z31	90 r	1512	DUS	Da	te of De	posit	: <u>Feb</u>	ruary 17,	<u>2006</u>
I he	ereby	certify	that	the	attached	Trans	smittal	Letter	to	the	United	States
Designated/I	Elected	d Office	(DO/E	EO/US	), Prelin	ninary	Amend	lment, a	ınd I	Declar	ration (3	7 CFR
§1.63) and	Power	of Atto	rney, v	with c	opies as	requi	red for	authoria	zatioi	n for	use of I	<b>Deposit</b>
Account No	. 19-0	065, are	being o	deposi	ted with	the U	nited St	ates Pos	tal S	ervice	e "Expres	s Mail
Post Office	to Ad	ldressee"	servic	e und	er 37 C	FR §1.	.10 on	the date	indi	icated	above a	ınd are
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